

9291

Diag. Cht. Nos. 1283 & 1284

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. Ph-14(46) Office No. T-9291

LOCALITY

State TEXAS

General locality GULF INTRACOASTAL WATERWAY

Locality MATAGORDA BAY TO LIVE OAK BAY

194 7

CHIEF OF PARTY

R. A. Gilmore, Chief of Field Party.

T.B.Reed, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE Feb. 9-1953

B-1870-1 (1)

1626

DATA RECORD

T - 9291

Project No. (II):

PH-14(46)

Quadrangle Name (IV):

Field Office (II): Port Lavaca, Texas

Chief of Party: R.A. Gilmore

Photogrammetric Office (III):

Baltimore, Md.

Officer-in-Charge: T.B. Reed

Instructions dated (II) (III): (not dated) supplement 1, 22 July 1947
Letters dated 5 June 1947, 29 July 1947 and 4 February 1949
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 8-17-49

Date reported to Nautical Chart Branch (IV): 8-24-49

Applied to Chart No.

Date:

Date registered (IV): 7 Nov. 1952

Publication Scale (IV):

Publication date (IV):
(Date of issue July 1952)

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): IRENE, 1934

Lat.: 28 44 44.469" (1369.0m) Long.: 95° 45' 48.612" (1319.0m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

Y=

X=

No state coordinates on this map.

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Areas contoured by various personnel
 (Show name within area)
 (II) (III)

DATA RECORD

Field Inspection by (II): J.S.Howell

Date: Nov. 1947

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Same as date of photographs supplemented by field inspection.

Projection and Grids ruled by (IV): On original manuscript

Date: See Item 31

Projection and ~~Grids~~ checked by (IV):

"

Date: of the
Compilation
Report for
data regard-
ing these
items. sm

Control plotted by (III):

"

Date:

Control checked by (III):

"

Date:

Radial Plot or Stereoscopic

Date:

Control extension by (III):

None

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

M.F.Kirk

Date: 28 June 1949
6 July 1949

Photogrammetric Office Review by (III):

J.W.Vonasek

Date: 6 July 1949
4-5 August 1949

Elevations on Manuscript

Date:

checked by (II) (III):

Camera (kind or source) (III): U.S.C. & G.S. 9 lens camera focal length 8 $\frac{1}{4}$ "

Number	Date	Time	Scale	Stage of Tide
18360-18465	21 Oct. 1946	1324	1:10,000	at MHW
18366-18368	Do	1334	Do	0.1' above MHW

Reduction 1:20,000 for compilation purpose.

Tide (III)

Reference Station: Galveston Galveston Channel
Subordinate Station: Brazosport, Freeport Harbor
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4
1.6	1.6	1.9

Washington Office Review by (IV): *Lena T. Stevens*

Date: *17 Nov. 1950*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV): *Sylvia Dean*

Date: *26 June 1952*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 36 (revised)

Shoreline (More than 200 meters to opposite shore) (III): 33.8 miles

Shoreline (Less than 200 meters to opposite shore) (III): 52.2 miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 8

Recovered: 7

Identified: 7*

Number of BMs searched for (II):

Recovered:

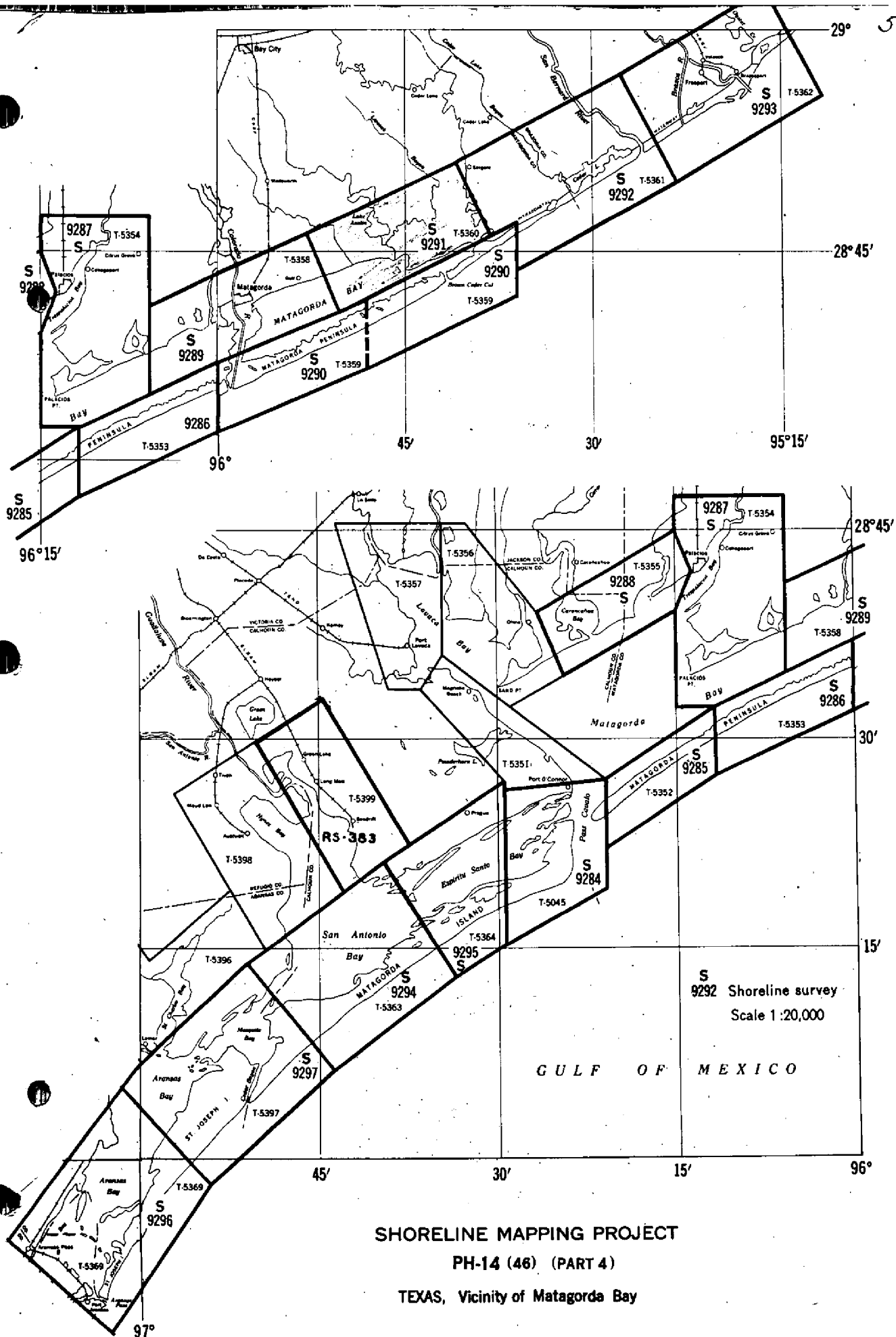
Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): none

Remarks:

* No pricking card was furnished for PRAIRIE, 1852



Summary to Accompany T-9291

Shoreline survey T-9291, scale 1:20,000, (Latitude $28^{\circ} 43'$ to $50'$; Longitude $95^{\circ} 39'$ to $53'$) is one of 76 maps in Project Ph-14(46), Intracoastal Waterway, which consists of four parts.

This project was planned to furnish data for a new series of Inland Waterway charts at 1:40,000 scale.

T-9291 is one of the Part IV group, which consists of 14 maps (T-9284 to T-9297, inclusive), vicinity of Matagorda Bay, Texas.

Field Report
Shoreline Manuscript T-9291

For field data covering Survey T-9291, refer to Special Report for project Ph-14(46), Gulf Intra-coastal Waterway, Cedar Lakes, Texas, to Aransas Pass, Texas, submitted by Ross A. Gilmore, Chief of Party, January 1948. *Original classified*

as Chart Letter No. 150 (1948). Filed in Nautical Chart Branch, Division of Charts.

MAP T. 9291

PROJECT NO. PH-14(46)

SCALE OF MAP

1:20,000

SCALE FACTOR

none

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
✓ SEVEN MILE, 1856 <i>r. 1947</i>	Acc. No. G-2874 Pg. 74	N.A. 1927	28 43 30.164 95 51 53.405			928.6 1449.3	
SUB POINT SEVEN MILE, 1856			Plotted graphically	<i>Removed from ms</i>			
✓ HANDY, 1934 <i>r. 1947</i>	Acc. No. G-2874 Pg. 65	N.A. 1927	28 44 10.013 95 49 39.541			308.3 1072.9	
SUB POINT HANDY, 1934			Plotted graphically	<i>Removed from ms</i>			
✓ BM 816 (USE) 1934 <i>r. 1947</i>	Acc. No. G-2874 P. 73	N.A. 1927	28 44 29.538 95 48 36.651			909.3 994.5	
SUB POINT BM 816 (USE) 1934			Plotted graphically	<i>Removed from ms</i>			
✓ IRENE, 1934 <i>r. 1947</i>	Acc. No. G-2874 P. 66	"	28 44 44.469 95 45 48.612			1369.0 1319.0	
SUB POINT IRENE 1934			Plotted graphically	<i>Removed from ms</i>			
WINDMILL A, 1934 <i>r. 1947 (peer cont.)</i>	Acc. No. G-2874 P. 88	"	28 45 40.623 95 46 56.843			1250.6 1542.1	
✓ EM 782(USE) 1934 <i>r. 1947</i>	Acc. No. G-2874 P. 73	"	28 44 40.409 95 42 42.995			1244.0 1166.6	
POOLE, 1931	Acc. No. G-1552 P. 141	"	28 47 54.640 95 50 41.542			1682.1 1126.6	
✓ PRAIRIE, 1852 <i>r. 1947</i>	Acc. No. G-2874 P. 66	"	28 46 52.137 95 41 34.883			1605.1 946.2	∞

1 FT. = 3048006 METER

L.S. 89

COMPILED BY: H.R. Rudolph

DATE

12 August 1949

Copy

CHECKED BY: J. Honick

DATE

12 August 1949

M. 2388-12

COMPILATION REPORT

T - 9291

FIELD INSPECTION REPORT

For field report refer to Special Report, PH-14(46) Gulf Intracoastal Waterway, Cedar Lakes, Texas, to Aransas Pass, Texas, submitted by Ross A. Gilmore dated January 1948.

31. DELINEATION

This manuscript was compiled without the aid of a radial plot. A red-line copy of "USC&GS Air Photo Compilation No. T-5360 (date of photographs 19 December '33), scale 1:20,000", was used as a manuscript. By using the control stations plotted thereon and the sub points for some of these stations (which were plotted graphically), as well as the detail that remained since 1933, there was found to be sufficient control to hold the photographs while delineating. Where the detail on the "redline" and photographs disagreed the "redline" detail was scratched out and corrected by delineating that portion in black.

The photographs used in the compilation were 1:20,000 reductions of the 1:10,000 office photographs. These reductions, though adequate, were rather difficult to delineate from, due to the very dark tone of the prints.

The entire area of manuscript was not covered by photographs. Therefore the limits of the revised area has been indicated on the manuscript by a dashed purple line labeled as such.

32. CONTROL

The identification and density of horizontal control along the Intra-coastal Waterway was adequate. In the remaining areas of the manuscript there were not enough changes in detail to warrant additional control.

33. SUPPLEMENTAL DATA

Geographic names were taken from a lithographic copy of T-5360 (1934) on which the names were corrected to 7-18-49.

34. CONTROUS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

Form No. 524 was submitted for AZIMUTH MARK IRENE, 1934. Recoverable topographic station TIN HOUSE OLD CISTERN INVERTED was destroyed when the Intracoastal Waterway was dug through.

39. JUNCTIONS

This manuscript joins with sheets T-9289, T-9290, and T-9292. Junction was made with these sheets.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript was compared with the Corps of Engineers, Texas Sheet No. 536 N. Matagorda, scale 1:125,000, Date 1915, reprinted by Army Map Service, 1943; and USC&GS Air Photo Compilation Matagorda Bay, Liveoak Bay, No. T-5360 (1934).

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript was compared with USC&GS chart No. 1283, 1:80,000 published May 1940, corrected to 13 December 1948.

Items to be Applied to Nautical Charts Immediately

None

Items to be carried forward

None

Respectfully submitted
8 July 1949

Millard F. Kirk
Cartographer

Approved and forwarded
August 1949

Thos. B. Reed

Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric
Office

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9291

1. Projection and grids _____ 2. Title JW 3. Manuscript numbers JW 4. Manuscript size JW

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy _____ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JW 7. Photo hydro stations _____ 8. Bench marks JW 9. Plotting of sextant fixes JW 10. Photogrammetric plot report _____ 11. Detail points JW

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JW 13. Low-water line JW 14. Rocks, shoals, etc. JW 15. Bridges JW 16. Aids to navigation JW 17. Landmarks JW 18. Other alongshore physical features JW 19. Other along-shore cultural features JW

PHYSICAL FEATURES

20. Water features JW 21. Natural ground cover JW 22. ~~Planetable contours~~ _____ 23. ~~Stereoscopic instrument contours~~ _____ 24. ~~Contours in general~~ _____ 25. ~~Spot elevations~~ _____ 26. Other physical features JW

CULTURAL FEATURES

27. Roads JW 28. Buildings JW 29. Railroads JW 30. Other cultural features JW

BOUNDARIES

31. ~~Boundary lines~~ _____ 32. ~~Public land lines~~ _____

MISCELLANEOUS

33. Geographic names JW 34. Junctions JW 35. Legibility of the manuscript JW 36. ~~Discrepancy overlay~~ _____ 37. Descriptive Report JW 38. Field inspection photographs JW 39. Forms JW40. Joseph W. Conner Harry R. Rudolph
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler_____
Supervisor

43. Remarks:

41. REMARKS

1. The projection is the same as on printed Survey No. T-5360 (1934). There is no state grid on Survey No. T-9291.

5. No control stations were plotted. They were already printed. Sub points were plotted graphically.

7,9,16, 17, 29. - Not applicable

10. There was no radial plot for this revision.

13. No LWL was furnished.

Reviewer

48. GEOGRAPHIC NAMES

- • Big Boggy Creek ✓
- • Boggy Bayou
- • Boggy Lake ✓
- • Broad Bayou

- • Caney Creek
- • Canoe Creek
- • Chinquapin Bayou

• Dressing Point

• East Matagorda Bay

• Intracoastal Waterway

- • Journey Bayou

- • Kilbride Lake ✓

- • Lake Austin
- Live Oak Bay
- • Live Oak Bayou

- • Pelton Lake
- • Pelton Slough ✓

- • Turkey Island Slough

Geographic names were taken from standard furnished by the Washington Office.

• Names approved

8-31-50

A. J. W.

49. NOTES FOR THE HYDROGRAPHER

The following are the recoverable topographic station on this survey:

AZIMUTH MARK IRENE, 1934

SOUTH GABLE UNPAINTED HOUSE (A 7-5360 station)

Review Report T-9291
Shoreline Survey
17 November 1950

62. Comparison with Registered Surveys.-

T-557 1:20,000 1856 Live Oak Bay to Cany Creek

The shoreline has receded, and the central portion of the peninsula that formed the southern boundary of Live Oak Bay has been removed by erosion. This has made an island of the outer end of the peninsula and changed the sheltered bay to an open bay.

T-642 1:20,000 1855-7 Matagorda to Live Oak Bay

There is little basis for comparison. The old map does not delineate the intricate pond pattern in the marsh. Two of the old triangulation stations are on T-9291 - Prairie, 1852 and Seven Mile, 1856.

Neither interior nor shoreline delineation on the old surveys are applicable to contemporary charts, and are of historic value only.

T-5360 1:20,000 1933 (Used as base for T-9291)

63. Comparison with Maps of Other Agencies.-

USE Matagorda 1:125,000 1915, rep. 1943, Matagorda to Quintana.

The difference in scale affords basis for only superficial comparison. This indicates that for shoreline, waterway and other comparable features T-9291 supersedes the quadrangle for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

1283 1:80,000 ed. May 1940 rev. May 1949
1284 1:80,000 ed. Jan. 1945 rev. March 1950

Revision to shoreline only was made along East Matagorda Bay. No offshore details were furnished by field inspection. Inland compilation was made wholly from office interpretation.

Changes made during review:

1. Levees have been added or redelineated
2. A narrow strip of marsh lies between the canal and the narrow levee in many places. The shoreline has been changed to a thin line in those places.

T-9291

66. Accuracy. - The shoreline and revised interior planimetry complies with requirements of project instructions and meets the National Standard of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

S. V. Griffith 1/23/53
Chief, Review Section
Div. of Photogrammetry

A. C. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

Carl O. Heaton
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 9291

Record of Application to Charts

[illegible]

M.2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.